

Title (en)

OPTICAL ADD-DROP MULTIPLEXER BRANCH UNIT AND CONTROL METHOD THEREOF

Title (de)

VERZWEIGUNGSEINHEIT FÜR EINEN OPTISCHEN ADD/DROP-MULTIPLEXER UND STEUERVERFAHREN DAFÜR

Title (fr)

UNITÉ DE BRANCHEMENT D'UN MULTIPLEXEUR D'INSERTION-EXTRACTION OPTIQUE ET SON PROCÉDÉ DE COMMANDE

Publication

**EP 2654227 A4 20131023 (EN)**

Application

**EP 12805554 A 20120223**

Priority

CN 2012071546 W 20120223

Abstract (en)

[origin: US2013223837A1] An optical add-drop multiplexer branching unit and its control method are provided according to the present disclosure. The optical add-drop multiplexer branching unit includes: four wavelength division multiplexers WDM1 to WDM4 and a first optical switch module, where WDM1 to WDM4 are configured to divide or combine wavelengths of signals; the first optical switch module is configured to control connection and disconnection of signals that leave and enter the four wavelength division multiplexers; the first optical switch module includes port 1 to port 4; the ports are connected with input ports or output ports of WDM1 to WDM4, respectively; states of internal connection between the ports include state 1 and state 2. The OADM BU in the foregoing solutions is characterized by simple structure, easy control, and high capability of disaster recovery.

IPC 8 full level

**H04J 14/02** (2006.01); **H04B 10/03** (2013.01)

CPC (source: EP US)

**H04B 10/03** (2013.01 - US); **H04J 14/0202** (2013.01 - EP US); **H04J 14/0212** (2013.01 - EP US); **H04J 14/0215** (2013.01 - US); **H04J 14/0291** (2013.01 - EP US); **H04J 14/0216** (2013.01 - EP US)

Citation (search report)

- [X1] CN 101902665 A 20101201 - HUAWEI TECH CO LTD
- [A] GB 2304482 A 19970319 - NEC CORP [JP]
- [A] US 2002057477 A1 20020516 - ROCCA CORRADO [IT], et al
- [A] EP 0847158 A2 19980610 - FUJITSU LTD [JP]
- [XA] DIMOPOULOS C ET AL: "Optical-power transients in long-haul WDM trunk-and-branch networks", IEE PROCEEDINGS: OPTOELECTRONICS, INSTITUTION OF ELECTRICAL ENGINEERS, STEVENAGE, GB, vol. 147, no. 5, 18 October 2000 (2000-10-18), pages 329 - 334, XP006014388, ISSN: 1350-2433, DOI: 10.1049/IP-OPT:20000697
- See also references of WO 2013123665A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

**US 2013223837 A1 20130829**; CN 102742199 A 20121017; EP 2654227 A1 20131023; EP 2654227 A4 20131023; WO 2013123665 A1 20130829

DOCDB simple family (application)

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